













### **Command & Control**

overview

To gain full theater coverage,

ground and aerial radio relays

are used, including such de-

ployed on aircraft and UAVs.

Aircraft such as AWACS and

Compass Call are not only

helping people communicate

better, they're also providing

protection to the troops on

the front lines.

satellite communications.

#### Communications Channels

**Tactical Data and Information** 

Links, Link 11 and Link 16 fall

into the military communica-

tions channels category.

Other topics of interest

in this category include:

coordinate alignment,

Interoperability, bandwidth,

coordination in theater, next

and the Single Integrated Air

generation TADIL systems

#### Satellite Comm overview

On the horizon for satellite

communications is the 2020

Transformational Com-

munications Architecture.

and the SATCOM and C4ISR

will continue to be an em-

phasis on the development

of integrated systems, robust

protected network architec-

ture and improvements in

bandwidth capability.

architecture evolution. There

#### Observables & Sensors This discipline incorporates

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# By Mr. Jim Verchio

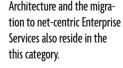
ntercom Editor

signal intelligence, image intelligence and sensor fusion. The Department of Defense's goal is to complete information integration with machines fusing intelligence, freeing people to dedicate

electronics intelligence,

mand & Control hierarchy. systems and commands, sensor-to-shooter and Time Critical Targeting, Future C4ISR systems including the airborne Active Electronically Architecture and the migra-Scanned Array radar will play significant role in America's lefense.

Platforms & Sensors



With precision targeting, the

C4ISR community is able to

maintain global information

dominance while ensuring

our national defense team

and acts first.

sees first, understands first.

In this category falls the

Global Information Grid,

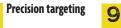
net-centric warfare and the

**Distributed Common Ground** 

Station. Computer software

and hardware interoper-

ability, the Joint Tactic



## Designing C4ISR

C4ISR investment effort

is the concept of placing

commanders to study, save,

exploit or destroy a target

consistent with the combat-

ant commander's plans.

systems Under this category, the

Air Force is working toward developing a system to meet interoperability and user requirements. The organizing principle for the

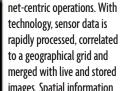


The Air Force is working **Department of Defense** 



## Net-centric technology





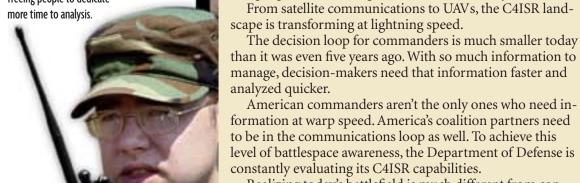
rapidly processed, correlated to a geographical grid and merged with live and stored images. Spatial information can be presented over common map displays, showing a detailed multi-dimensional situational picture.











formation at warp speed. America's coalition partners need to be in the communications loop as well. To achieve this level of battlespace awareness, the Department of Defense is constantly evaluating its C4ISR capabilities. Realizing today's battlefield is much different from con-

This month's intercom focuses on some of the systems

and people who make up the C4ISR community.

flicts past, Gen. Richard B. Myers briefed attendees of this year's C4ISR conference on how the DoD is working to harness information and shorten the kill chain.

The former chairman of the joint chiefs told his audience that even though America is setting the standard for C4ISR, it's by no means where it needs to be. He said (C4ISR) isn't just about communicating between services, it's about communicating with everyone.

He also stressed during his speech that "stovepiping" people and systems is not the way of the future. He said successful communication between services and across platforms requires a mindset of teamwork and cooperation.

"And if you think you're in the intelligence community or you think you are an intelligence platform or a surveillance platform or a reconnaissance platform, then you automatically stovepipe yourself." He said, "We ought to be thinking about battlespace awareness, that's what it's all about. We ought to blur these lines between operations and intelligence much more than we do. This puts a huge burden on the operators, to wake up and pay attention to what their collaboration with the rest of the intel community ought to be."

This graphic shows how the DoD is using technology to increase battlespace awareness without stovepiping its people or systems.



BATTLESPACE AWARENESS & C4ISR